

NON-FERROUS SURGE BIASING COIL HAVING MULTIPLE
PAIRS OF COILS POSITIONED AT ANGLES TO ONE ANOTHER

ABSTRACT

5 A surge suppression device includes a first and second
coil positioned in close proximity to one another such that the
windings of each coil are disposed at an angle thereto. In a
preferred embodiment, the coils are disposed such that the
windings of each coil are placed at a right angle (90 degrees)
10 to one another. However, angles of varying degree can be
employed. Varying configurations of the coil winding placement
include a "sandwiched" type configuration, a "one on the top of
the other" configuration as well as an intertwined
configuration. Each embodiment employs additional surge
15 elements such as metal oxide varistors (MOVs). It is
unnecessary to employ any ferrous material core for any of the
coils used in the novel device of the present invention.

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